

CENTRAL INTELLIGENCE AGENCY

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C-O-N-F-I-D-E-N-T-I-A-L

50X1-HUM

COUNTRY Czechoslovakia

REPORT

SUBJECT 1. Gustav Kliment Pipe Rolling Mill in Chomutov  
2. Precision Mechanics Plant in Brno

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

One report deals with the Gustav Kliment pipe rolling mill (Valcovny trub Gustava Klimenta, n.p.) in Chomutov, and the other with the precision mechanics plant (Presna Mechanika, n.p.) in Brno.

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50X1-HUM

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STATE	ARMY	NAVY	AIR	FBI	AEC					

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INFORMATION REPORT INFORMATION REPORT

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Date: 9 Sept 1957

Country: C.S.R.SUBJECT: PRESNA MECHANIKA BRNO, MLYNSKA 44, C.S.R.1. Subordination

The plant was controlled by and subordinate to the Ministry of Automobile and Agricultural Machine Production in PRAGUE (M.A.P.).

2. Labour

About 300 persons were employed of whom approx. 180 were production workers, the remainder were administrative and commercial clerks, draughtsmen and women, technicians, translators, transport workers, cleaners and management. Work progressed in one daily 8 hour shift on 5 days per week and a 6 hour shift on Saturdays.

Each employee performed a 46 hour working week. Overtime was occasionally worked for which 10 KRONER per hour was paid.

Works Manager	:	KOZUMPLIK, Josef
Chief Engineer	:	PANEK, Frantisek
Commercial Manager	:	SIRINA, Oldrich
Head of Planning Dept.	:	HROMADKA, Karel
Labour Manager	:	MAHOVSKY, fnu
Communist Part Secty	:	KSIR, Josef

3. Productiona) Medical and Surgical equipment

In 1956 the works produced about 5 photo electric oxymeters and in 1957 about 25 were planned to be produced.

The photo electric instruments were designed to determine the percentage of oxygen saturation in the bloodstream; photo electric measurement was taken from the ear lobe.

The instrument was a development from the American "MILLIKAN and WOOD" oxymeter. All were forwarded to hospitals and medical institutes in the C.S.R.

It was planned to produce 5 Corticostimulators in 1957, one had actually been produced by the 28 August 57. The instrument was designed to stimulate the brain when exposed during an operation. It was a development from the Corticostimulator produced by the "RAHM Instruments Company" of America. The first produced instrument was tested at the NEURO-SURGICAL institute in PRAGUE by Dr. M.D. PELESKA.

50X1-HUM

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... 2.

-2-

50X1-HUM

CONFIDENTIALProductiona) Medical and Surgical equipment (contd)

50X1-HUM

Five defibrillators were planned to be produced in 1957

The instrument was to arrest the fibrillation (vibration) of the heart during surgical operation by means of electric shock. Unlike Western instruments this model was of high voltage and was based on Russian design. Voltage was 5,000 per one micro second. Under operation however shocks could be administered at low voltage (120).

The instrument was planned to be exhibited at the World Exhibition in Brussels in 1958. Dr. PELESKA tested it.

In 1956/57 the works produced about 50 photo electric haemometers for C.S.R. hospitals. The instrument was designed to determine percentage of red blood colour (haemoglobin).

The Danish instrument "HAEMOTEST" was the forerunner of this model.

The works produced 300 endoscopes per year for observation of cavities of the bladder, the human nose and throat. All were despatched to C.S.R. hospitals, none were exported.

Endoscopes produced by "A.C.M.I" endoscope makers of NEW YORK, served as models for this production.

In 1957 it was planned to produce 5 chronaximeters, one had been completed when informant left. The instrument was designed to measure the shortest time needed for stimulation of the human arm or leg muscles by electric current. A Swiss instrument called "PURCHERT CHRONAXIMETER" was a model for this production. The completed instruments were to be sold to a C.S.R. medical supply company called "SANITAS".

In 1957 three dermometers were planned to be produced, one had been completed when informant left. The instrument was designed to measure electrical resistance of the human skin by application of different medicaments. A west German instrument called "DERMATO OHMMETER" served as a model for this production.

b) Gasmeters

The works produced about 25,000 gasmeters for household and industrial purposes annually. This was the main production item of the works. All were of German pre-war type "KROMSCHRODER". Many of them were exported to South America.

4. Works extensions and Planning

The works was to be enlarged by construction of one large new building in which a greater number of medical and surgical instruments of the aforementioned types were to be produced for Export.

The building and installations were to be completed by 1960 at an investment sum of approx. 2,000,000 C.S.R. KRONER.

Further information of value could not be obtained.

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DATE: 10 September, 1957.

50X1-HUM

Country: C.S.R.

Subject: Tube rolling mill "V T G K" (VALCOVNA TRUB GUSTAVA KLEMENTA)  
at CHOMUTOV - CSR. (August 1957) 50X1-HUM

2. The works is located at the north-eastern edge of the town (location pin-pointed UR 890910).
3. The works employs about 4,000 workers in three shifts per day. 50X1-HUM
4. It produces steel tubes of various diameters. [redacted]  
[redacted] almost the entire production is delivered to the USSR.  
[redacted] between 20 and 35 railway wagons loaded with tubes, leave the works every day.
5. The raw material - ingots of one metre length and 40 cm in dia - are delivered to the works from the steel works POLDINA HUT in KLADNO and CHOMUTOV and the steel works in MORAVSKA OSTRAVA. Details about quantities delivered are unknown [redacted] 50X1-HUM
6. The electric power is supplied by underground lines from the power plant at ERVENICE.
7. Description of the works: 50X1-HUM

[redacted] the consecutive numbers correspond to its figures).

- (i) Administration offices - a one-storey brick building.
- (ii) Offices, canteen, and kitchen - a one-storey brick building.
- (iii) Main workshop of steel frame and masonry construction, 12 m high with a concrete and glass-built saw-tooth roof. This workshop is sub-divided into the following shops:-

1. 1st rolling train (1. TRAT); its installation consists of:-
  - a heating furnace, gas-fired, 10 m long, 4 m in dia;
  - an ingot boring machine;
  - an automatic tube straightening machine of 12 m length;
  - two cutting-off machines;
  - three overhead travelling cranes of five tons capacity each;

The tubes are processed at this rolling train, roughly to a dia of 500 mm with a small bore, and then passed on to the adjoining reaming shop for final processing

CONFIDENTIAL

/2....

CONFIDENTIAL

50X1-HUM

- 2 -

## B. 2nd rolling train (2. TRAT); its installation consists of:-

- a gas-fired heating furnace of similar size as mentioned above;
- an ingot boring machine;
- a tube straightening machine;
- a tube expanding machine and two cutting-off machines;
- three overhead travelling cranes of 5 tons capacity each;

This rolling train produces tubes of 14 metres length, 300 mm in dia., and with a wall thickness of 6.8 and 7.6 mm. The production per shift amounts to about 90 tubes.

## C. 3rd rolling train (3. TRAT); its installation consists of:-

- two gas-fired heating furnaces;
- a boring machine; a drawing machine; six cutting-off machines;
- three overhead travelling cranes of 2.5 and 5 tons capacities;

The production of this rolling train comprises tubes of 100 mm dia., 8 metres length, with a wall thickness of between four and six mm. The production per shift amounts to about 120 tubes.

## D. 4th rolling train (4. TRAT); its installation corresponds to that of the a/m 3rd rolling train. It produces tubes of 50 mm up to 100 mm dia., of 8 to 10 metres length, and with between 3 mm and 6 mm wall thickness. Number of tubes produced per shift amounts to about 100. In addition, this department also produces a smaller quantity of tubes, 7 metres long, 100 mm in dia., with a wall thickness of about 40 mm. The latter were despatched to CHINA.

## E. Tube reaming shop; its installation consists of:-

- a gas-fired furnace, 15 m long, 5 m square;
- a large tube expanding machine, 13 m long, 9 m wide, 1.5 m high;
- a tube straightening machine;
- three overhead travelling cranes of 5 tons and 10 tons capacities;

this shop carries out final processing of tubes pre-processed at the a/m 1st rolling train. The tubes produced have an average length of 10 m, are 500 mm in dia., and have wall thicknesses of 8.3 mm up to 11.8 mm. The number of tubes produced per shift amounts to about 100. [ ] they are designated for oil pipe-lines.

50X1-HUM

## F. Testing shop for tubes of 500 mm dia; its installation consists of three overhead travelling cranes of 5 tons capacity each, of two presses and a large testing machine.

## G. This shop, formerly used as a tube testing shop and tube store, was just re-installed [ ]. Preparations were going on for the installation of a heating furnace, overhead travelling cranes and machines being delivered from the USSR. [ ] this shop was intended as a further rolling train for the production of 500 mm tubes.

50X1-HUM

## H. Shop for warping pipes in asphalt; installed are two overhead travelling cranes of 2.5 tons and 5 tons capacities, and a bath of asphalt liquid.

## J. Forge for carrying out repairs of mechanical plants of the rolling trains; its installation consists of a hammer-furnace, two large and one small compressed-air hammers, several straightening machines and an overhead travelling crane of 10 tons capacity.

CONFIDENTIAL

/3....

CONFIDENTIAL

- 3 -

50X1-HUM

- K. Ingot crushing shop; a large press and several small crushing machines are installed.
- (iv) Tube cold-drawing shop, of steel and brick construction, 10 m high; several tube straightening machines, cutting machines and saws are installed. This shop works tubes of between 5 mm and 30 mm dia.
- (v) Forge, brick built, 8 m high; two hammer furnaces, three compressed-air hammers are installed. The forge carries out repairs of mechanical plants of the works.
- (vi) Former shop for the production of oxygen flasks; this brick built shop, 5 m high, has been unused and empty since 1952.
- (vii) Mechanical workshop - a one-storey brick building; carries out repairs of installations of the works. Its installation consists of five lathes, four grinding machines, two milling machines, and two planing machines.
- (viii) Roller grinding shop, brick built, 6 m high; its installations are unknown [redacted] 50X1-HUM
- (ix) Fitter's shop and tool-maker's shop, brick built, 8 m high; several lathes and other small machine tools are installed.
- (x) Raw material store in the open air.
- (xi) Tube store in the open air.
- (xii) Workshop of steel frame and masonry construction, 15 m high; this shop was newly constructed from 1951 to 1953. [redacted] 50X1-HUM  
[redacted] tubes made of a special material, of high quality, are produced there for military purposes. [redacted] those tubes were closely packed when being despatched. 50X1-HUM
- (xiii) Store shed, brick built, 6 m high, used by the a/m workshop of special tubes production.
- (xiv) Welding shop, brick built, 6 m high; details about it are unknown [redacted] 50X1-HUM
- (xv) Roofed store of petrol, oil, and paints in casks.
- (xvi) Pattern maker's shop - a single storey brick building.
- (xvii) Narrow gauge locomotive shed, brick built, 6 m high.
- (xviii) Gas-works of steel frame construction, faced with corrugated sheet iron, 20 m high.
- (xix) Gasometer, 15 m in dia., 25 m high.

End of Report

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50X1-HUM

Subject: Tube rolling mill "V T G K"  
Valcovna Trub Gustava Klementa  
at CHOMUTOV

